

G1DH-US  
SEQUENCE LISTING

<110> Merck Patent GmbH

<120> Glucose Dehydrogenase Fusion Proteins and their Utilization in Expression Systems

<130> Merck 2289 / P9906920

<140> US SN 09/913,494

<141> 2000-02-08

<150> DE 19906920

<151> 1999-02-19

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## G1DH-US

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Arg Cys Trp Cys Gly Ala Asp Leu Glu Cys Ala Gln Asp Gln Tyr Cys  
20 25 30

Ala Phe Ile Pro Gln Cys Arg Pro Arg Ser Glu Leu Ile Lys Pro Met  
35 40 45

Asp Asp Ile Tyr Gln Arg Pro Val Glu Phe Pro Asn Leu Pro Leu Lys  
50 55 60

Pro Arg Glu Glu

## GLDH-US

65

&lt;210&gt; 6

&lt;211&gt; 261

&lt;212&gt; PRT

&lt;213&gt; Bacillus megaterium / Heamenteria ghilianii fusion

&lt;400&gt; 6

Met Tyr Thr Asp Leu Lys Asp Lys Val Val Val Ile Thr Gly Gly Ser  
 1 5 10 15

Thr Gly Leu Gly Arg Ala Met Ala Val Arg Phe Gly Gln Glu Glu Ala  
 20 25 30

Lys Val Val Ile Asn Tyr Tyr Asn Asn Glu Glu Glu Ala Leu Asp Ala  
 35 40 45

Lys Lys Glu Val Glu Glu Ala Gly Gly Gln Ala Ile Ile Val Gln Gly  
 50 55 60

Asp Val Thr Lys Glu Glu Asp Val Val Asn Leu Val Gln Thr Ala Ile  
 65 70 75 80

Lys Glu Phe Gly Thr Leu Asp Val Met Ile Asn Asn Ala Gly Val Glu  
 85 90 95

Asn Pro Val Pro Ser His Glu Leu Ser Leu Asp Asn Trp Asn Lys Val  
 100 105 110

Ile Asp Thr Asn Leu Thr Gly Ala Phe Leu Gly Ser Arg Glu Ala Ile  
 115 120 125

Lys Tyr Phe Val Glu Asn Asp Ile Lys Gly Asn Val Ile Asn Met Ser  
 130 135 140

Ser Val His Glu Met Ile Pro Trp Pro Leu Phe Val His Tyr Ala Ala  
 145 150 155 160

Ser Lys Gly Gly Met Lys Leu Met Thr Glu Thr Leu Ala Leu Glu Tyr  
 165 170 175

Ala Pro Lys Gly Ile Arg Val Asn Asn Ile Gly Pro Gly Ala Met Asn  
 180 185 190

G1DH-US

Thr Pro Ile Asn Ala Glu Lys Phe Ala Asp Pro Glu Gln Arg Ala Asp  
195 200 205

Val Glu Ser Met Ile Pro Met Gly Tyr Ile Gly Lys Pro Glu Glu Val  
210 215 220

Ala Ala Val Ala Ala Phe Leu Ala Ser Ser Gln Ala Ser Tyr Val Thr  
225 230 235 240

Gly Ile Thr Leu Phe Ala Asp Gly Gly Met Thr Lys Tyr Pro Ser Phe  
245 250 255

Gln Ala Gly Arg Gly  
260

<210> 7

<211> 11

<212> PRT

<213> Bacillus megaterium / Heamenteria ghiliani fusion

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Ala Met Arg Gly Ser His His His His His His  
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32

<210> 9

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<212> DNA

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G1DH-US

<220>

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<222> (1)..(31)

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31

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31

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G1DH-US

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22

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G1DH-US

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20

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18